



INFLUENZA T CELL EPITOPES

Table 1. Influenza A virus CTL Epitopes of the Nucleoprotein

Amino Acid Positions (ref.)	Host	MHC restriction
44-52 (ref. 14)	human	HLA-A1
50-63 (ref. 3)	mouse (CBA)	H-2Kk
91-99 (ref. 13)	human	HLA-Aw68
147-158 (ref. 5)	mouse (Balb/c)	H-2Kd
265-273 (ref. 14)	human	HLA-A3
335-349 (ref. 1)	human	HLA-B37
335-349 (ref. 2)	mouse	HLA-B37
365-380 (ref. 2)	mouse	H-2Db
366-374 (ref. 9)	mouse (C57B1/6)	H-2Db
380-388 (ref. 16)	human	HLA-B8
383-391 (ref. 16)	human	HLA-B27

Table 2. Influenza A virus T helper Epitopes of the Nucleoprotein

Amino Acid Positions (ref.)	Host	MHC restriction
55-69 (ref. 8)	mouse (Balb/c)	H-2Kd
182-205 (ref. 11)	human	
187-200 (ref. 8)	mouse (CBA)	H-2Kk
	mouse (Balb/c)	H-2Kd
216-229 (ref. 8)	mouse (Balb/c)	H-2Kd
206-229 (ref. 11)	human	HLA-DR1, HLA-DR2 en HLA-DRw13
260-283 (ref. 8)	mouse (CBA)	H-2Kk
	mouse (C57B1/6)	H-2Db
	mouse (B10.s)	H-2s
297-318 (ref. 11)	human	
338-347 (ref. 16)	human	HLA-B37
341-362 (ref. 11)	human	
413-435 (ref. 8)	mouse (C57B1/6)	H-2Db

Table 3. Influenza A virus T cell Epitopes of Other Viral Proteins

Peptide	Host	T cell type	MHC restriction
PB1 (591-599) (ref. 14)	human	CTL	HLA-A3
HA (204-212) (ref. 16)	mouse	CTL	H-2Kd
HA (210-219) (ref. 16)	mouse	CTL	H-2Kd
HA (259-266) (ref. 16)	mouse	CTL	H-2Kk
HA (252-271) (ref. 7)	mouse	CTL	H-2Kk
HA (354-362) (ref.16)	mouse	CTL	H-2Kk
HA (518-526) (ref. 16)	mouse	CTL	H-2Kk
HA (523-545) (ref. 10)	mouse	CTL	
NA (76-84) (ref.16)	mouse	CTL	H-2Dd
NA (192-201) (ref. 16)	mouse	CTL	H-2Kd
M1(17-29) (ref. 6)	human	T helper	HLA-DR1
M1 (56-68) (ref. 4)	human	CTL	HLA-A2
M1(58-66) (ref. 12)	human	CTL	HLA-A2
M1(128-135) (ref. 15)	human	CTL	HLA-B35
NS1(122-130) (ref. 15)	human	CTL	HLA-A2
NS1(152-160) (ref.16)	mouse	CTL	H-2Kk

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